

# Source Water Assessment Report



**Public Water Supply: NATIONAL BEEF PACKING, LP-DODGE**

**Assessment Areas Include:  
874**



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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

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# Report Description

## Detailed Explanation of Entire Report:

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two-mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream-drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet-based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(<http://www.kdhe.state.ks.us/nps>) in 2004.

## NATIONAL BEEF PACKING, LP-DODGE Summary:

AA	Type	Diversion Id
874	Ground water single well	003, 004

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**  
Assessment Area: **874**  
Diversion Id's: **003, 004**  
Status: **Accepted**  
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## **Executive Summary:**

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication – phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi-quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

# Executive Summary

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**

Assessment Area: **874**

## Susceptibility Likelihood Scores for Assessment Area

Contaminant Category	A	B	B*	C	C*	D
Susceptibility Likelihood Score – SLS	<b>50</b>	<b>52</b>	<b>53</b>	<b>60</b>	<b>56</b>	<b>59</b>
SLS Range	Low	Mid	Mid	Mid	Mid	Mid

**A** – Microbiological

**B\*** – Nitrates

**C\*** – Pesticides

**B** – Inorganic Compounds

**C** – Synthetic Organic Compounds

**D** – Volatile Organic Compounds

## Susceptibility Likelihood Range

SLS Range	
<b>0–50</b>	<b>Low Susceptibility</b>
<b>51–80</b>	<b>Moderate Susceptibility</b>
<b>81–100</b>	<b>High Susceptibility</b>

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## Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a 100-foot radius around a groundwater well and a 1000-foot radius around a surface water intake. Zone B is a 2000-foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2-mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

**Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.**

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

# Potential Sources

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**  
Assessment Area: **874**

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214669	Veterinary Services, Specialties	742	B
214670	Veterinary Services, Specialties	742	B
214671	Animal Specialty Services	752	B
214672	Meat Packing Plant Manufacturing	2011	B
214550	Newspapers Publishing and Printing	2711	B
214551	Commercial Printing–Lithographic	2752	B
214651	Dairy Farms	241	C
214652	Veterinary Services, Specialties	742	C
214653	Veterinary Services, Specialties	742	C
214654	Veterinary Services, Specialties	742	C
214655	Veterinary Services, Specialties	742	C
214656	Veterinary Services, Specialties	742	C
214535	Animal Specialty Services	752	C
214560	Nonresidential Construction	1542	C
213976	Highway and Street Construction	1611	C
214220	Meat Packing Plant Manufacturing	2011	C
214581	Meat Packing Plant Manufacturing	2011	C
214557	Flour Mill and Other Food Grain Milling	2041	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
213884	Newspapers Publishing and Printing	2711	C
214059	Newspapers Publishing and Printing	2711	C
213893	Commercial Printing–Lithographic	2752	C
214646	Nitrogen Fertilizer Manufacturing	2873	C
214128	Ready–mix Concrete Plant	3273	C
214564	Farm Machinery and Equipment	3523	C
214695	Farm Machinery and Equipment	3523	C
214675	Lawn and Garden Equipment Manufacturing	3524	C
214685	Machinery, Except Electrical Manufacturing	3599	C
214202	Signs and Advertising Display Manufacturing	3993	C
214650	Farm Product Warehousing and Storage	4221	C
214218	Refuse Systems	4953	C
214680	Recreational vehicle sales and repair	5012	C
214553	Farm and Garden Machinery	5083	C
214046	Gasoline Service Station	5541	C
214209	Gasoline Service Station	5541	C
214577	Gasoline Service Station	5541	C
214556	Recreational vehicle sales and repair	5561	C
214522	Mobile Home Park	6515	C
214526	Mobile Home Park	6515	C

## Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
214678	Mobile Home Park	6515	C
214681	Mobile Home Park	6515	C
214219	Recreational Vehicle Parks and Campsites	7033	C
214121	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
214136	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
214142	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
214174	Auto Truck Repair Service	7538	C
214198	Auto Truck Repair Service	7538	C
214205	Auto Truck Repair Service	7538	C
214255	Auto Truck Repair Service	7538	C
214260	Auto Truck Repair Service	7538	C
214644	Auto Truck Repair Service	7538	C
214645	Auto Truck Repair Service	7538	C
214689	Auto Truck Repair Service	7538	C
214692	Auto Truck Repair Service	7538	C
214690	Car Wash	7542	C
213894	Repair Services, Nec	7699	C
214214	Repair Services, Nec	7699	C

## Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000019	K T Trucking	A-ARFO-T002	B

## Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000020	Andy's Truck Wash	A-UAFO-T001	B
2002726	Winter Livestock Inc.	A-UAFO-C017	C
2002792	Coake Feeding Company, Inc.	A-UAFO-C003	C
2002923	Winter Feed Yard, Inc.	A-UAFO-C001	C

## Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources
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## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000306	Hy Plains Beef	03796	B
3001110	Kindsvater Inc	16675	B
3001234	W W Manufacturing	22507	B
3002181	Roto-mix	28998	B
3000032	Grain Products	00154	C
3000133	South Dodge 66	01658	C
3000374	Dodge City Implement	04639	C
3000427	Western Beverage	05221	C
3000646	Love's #62	06730	C

## Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000739	Southwest Oil Supply	07177	C
3000917	Southwest Oil Supply	09185	C
3001010	Steffens Dairy Food	13274	C
3001019	Hitch N Post Truck Stop, Dodge City	13665	C
3001056	Goff Motors	14920	C
3001196	Skaggs Motors	20093	C
3001198	Gas N Go	20168	C
3001316	Safety-kleen	23570	C
3001399	Fina #4792, Dodge City	25065	C
3001400	Fina #9473, Dodge City	25068	C
3001440	Atsf Railway, Dodge City	25294	C
3001546	Presto #27	25842	C
3001588	Dodge City Airport, E Bus Hwy 50 56	26044	C
3001764	Kdot, Dodge City	26744	C
3001791	Isaac Truck Lines	26921	C
3002040	U-pump-it, Dodge City	28246	C
3002071	Foley Tractor	28385	C
3002137	Sw Bell	28767	C
3002218	Ford Co, Public Works	29152	C

## Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000036	EXCEL BEEF (MBPXL)	C102900026	C

## Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000043	BNSF DODGE CITY RAIL YARD	C102970945	C

## Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000163	Ford County	0175-S	C
5000506	City of Dodge City	0490-S	C
5000640	Ford County HHW Program	0629-S	C
5000693	Gladden Excavating	0671-S	C
5000826	APAC Kansas, Inc.–Shears Division	0797-S	C

## Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000492	GREEN ACRES MOBILE HOME PARK	C-UA11-ND02	C
6000912	KOCH MATERIALS INC.	I-UA11-NP03	C
6000914	EXCEL CORP.– DODGE CITY	I-UA11-PO10	C

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## **Added Sources:**

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

**Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.**

# Added Sources

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**  
Assessment Area: **874**

## Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001295	grove of trees	0	B
9001304	grove of trees	0	B
9001305	rural residence	0	B
9001292	discharging lagoons	10075	B
9001310	pastureland	10080	B
9001294	cropland	115	B
9001303	cropland	115	B
9001306	cropland	115	B
9001309	cropland	115	B
9001319	cropland	115	B

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## **Potential Contaminants Summary:**

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number of sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

# Potential Contaminants Summary

Public Water Supply: NATIONAL BEEF PACKING, LP-DODGE

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## Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Pesticides	IOC's	SOC's	VOC's	Nitrates
20	2	51	6	28	13

A – Microbiological

B\* – Nitrates

C\* – Pesticides

B – Inorganic Compounds

C – Synthetic Organic Compounds

D – Volatile Organic Compounds

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## Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

**A** – Microbiological    **B** – Inorganic Compounds                      **B1** – Eutrophication – Phosphorous  
**B2** – Sedimentation    **B\*** – Nitrates    **C** – Synthetic Organic Compounds  
**C\*** – Pesticides            **D** – Volatile Organic Compounds

# Potential Contaminants Listing

Public Water Supply: NATIONAL BEEF PACKING, LP-DODGE

Assessment Area: 874

## Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	B
"	"	"	D
7542	Car Wash	Inorganics, VOCs	B
"	"	"	B1
"	"	"	B2
"	"	"	D
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	A
"	"	"	B
5541	Gasoline Service Station	Inorganics, VOCs	B
"	"	"	D
1611	Highway and Street Construction	Sedimentation	B2
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	B
"	"	"	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	B
"	"	"	D
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*

## Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
6515	Mobile Home Park	Sanitary wastes, Fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B*
2873	Nitrogen Fertilizer Manufacturing	nitrogen	B
"	"	"	B*
1542	Nonresidential Construction	Sedimentation	B2
3273	Ready-mix Concrete Plant	Minerals and TSS	B
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	A
"	"	"	B
"	"	"	B1
"	"	"	B*
"	"	"	C*
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	B
"	"	"	D
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	B
"	"	"	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	B

## Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
3523	Farm Machinery and Equipment	inorganics	B
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	B
"	"	"	D
5083	Farm and Garden Machinery	inorganics	B
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	B

## Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	C
"	"	"	D
5012	Recreational vehicle sales and repair	Inorganics	B
5561	Recreational vehicle sales and repair	Inorganics	B
4953	Refuse Systems	ALL	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
"	"	"	C*
"	"	"	D
7699	Repair Services, Nec	inorganics	B

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## **Protection Measures:**

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

# Protection Measures

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**

Assessment Area: **874**

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
7542	Car Wash	Inorganics, VOCs	Install and maintain sediment and grease traps where appropriate	40 CFR 442
2041	Flour Mill and Other Food Grain Milling	BOD, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28-16, KDHE
3524	Lawn and Garden Equipment Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2011	Meat Packing Plant Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40CFR 432 and State or federal Storm water pollution prevention regulations
6515	Mobile Home Park	Sanitary wastes, Fertilizers	Discharge to POTW. Minimize use of lawn chemicals	KAR 28–5
2873	Nitrogen Fertilizer Manufacturing	nitrogen	Minimize contact of product with water. Contain and treat process wastewater	40 CFR 418 and State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28–16, KDHE
3273	Ready–mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7033	Recreational Vehicle Parks and Campsites	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	NA
3993	Signs and Advertising Display Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	40 CFR 459 and State or federal Storm water pollution prevention regulations
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2752	Commercial Printing–Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
5012	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	NA

## Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
5561	Recreational vehicle sales and repair	Inorganics	Discharge to a POTW. Store oils and lubricants properly	Discharge to a POTW. Store oils and lubricants properly
4953	Refuse Systems	ALL	Store wastes properly in order to minimize contact with storm water.	Maintain the lagoon or storage vessel properly. Control storm water run on and runoff to minimize contamination of storm water
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

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## **Assessment Analysis:**

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

# Assessment Analysis

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**

Assessment Area: **874**

## Ground Water Single Well Analysis

**A** – Microbiological **B** – Inorganic Compounds

**B\*** – Nitrates **C** – Synthetic Organic Compounds

**C\*** – Pesticides **D** – Volatile Organic Compounds

No.	Question	Response	A	B	B*	C	C*	D
1	Is the well under the influence of surface water?	No	0	0	0	0	0	0
2	Does the well meet KS water well construction standards?	Yes	0	0	0	0	0	0
3	Is the depth of the well less than 30 feet?	No	0	0	0	0	0	0
4	Are there unplugged, abandoned water wells present in Zone A?	No	0	0	0	0	0	0
5	Is there gravel pack within 20 feet of the surface?	No	0	0	0	0	0	0
6	Does a PWS own or control Zone A?	Yes	0	0	0	0	0	0
7	Does Zone A consist entirely of native grass?	No	1	1	1	1	1	1
8	Is there a contaminated well in the Zone A?	No	0	0	0	0	0	0
9	Is a class V UIC well present?	No	0	0	0	0	0	0
10	Are any commercial, industrial, or urban areas present in Zone B?	Yes	1	1	1	1	1	1
11	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	1	1	1	1
12	Are any non-farm home sites present in Zone B?	Yes	1	0	1	0	1	0
13	Do all the non-farm home sites have a water quality protection plan?	No	1	0	1	0	1	0
14	Are any farmsteads present in Zone B?	No	0	0	0	0	0	0
15	Do all farmsteads have a water quality protection plan?	Yes	0	0	0	0	0	0
16	Does Zone B consist entirely of native grass?	No	1	1	1	1	1	1
17	Is there grazing livestock in Zone B?	No	0	0	0	0	0	0

No.	Question	Response	A	B	B*	C	C*	D
18	Do all the livestock producers have water quality protection measures in place?	Yes	0	0	0	0	0	0
19	Is there livestock confinement in Zone B?	No	0	0	0	0	0	0
20	Is each confined animal feeding operation registered with KDHE?	Yes	0	0	0	0	0	0
21	Is there corn or grain sorghum production in Zone B?	Yes	0	0	1	0	1	0
22	Are corn/grain sorghum nutrient and pesticide management plans in use for each site?	No	0	0	1	0	1	0
23	Are any orchards present in Zone B?	No	0	0	0	0	0	0
24	Are orchard nutrient and pesticide plans in use for each site?	Yes	0	0	0	0	0	0
25	Are there unsewered developments (concentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0
26	Is there a railroad or major highway in Zone B or C?	Yes	0	1	1	1	1	1
27	Is there oil production in Zone B or C?	Yes	0	1	0	1	0	1
28	Do coarse textured soils predominate Zones A, B and C?	Yes	1	1	1	1	1	1
29	Is an irrigation well located in Zone B or C?	Yes	0	1	1	1	1	1
30	Is a wastewater treatment facility in Zone B or C?	Yes	1	1	1	1	1	1
31	Is a solid waste landfill in Zone B or C?	Yes	1	1	1	1	1	1
32	Are there unplugged, abandoned water wells present in Zone B or C?	Yes	1	0	0	0	0	0
33	Are any commercial, industrial, or urban areas present in Zone C?	Yes	1	1	1	1	1	1
34	Are water quality protection plans in use for each site/area?	No	1	1	1	1	1	1
35	Is there livestock confinement in Zone C?	Yes	1	1	1	1	1	0
36	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0
37	Do all the livestock producers have water quality protection measures in place?	No	1	0	1	0	0	0
38	Are cropland nutrient management plans in place?	No	0	0	1	0	0	0
39	Are cropland pesticide management plans in place?	No	0	0	0	0	1	0
40	Does a perennial stream flow into Zone C?	Yes	1	1	1	1	1	1
41	Are watershed water quality protection plans in place?	No	1	1	1	1	1	1

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**  
Assessment Area: **874**  
Diversion Id's: **003, 004**  
Status: **Accepted**  
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## **Site Comments:**

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

# Site Comments

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**

Assessment Area: **874**

## Comments for Unregulated Sites

Did Not Receive Any Comments
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## Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Andy's Truck Wash	2000020	This truckwash has groundwater monitoring.	Nicole Fisher
Coake Feeding Company, Inc.	2002792	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
K T Trucking	2000019	This truckwash has no groundwater monitoring.	Nicole Fisher
Winter Feed Yard, Inc.	2002923	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Winter Livestock Inc.	2002726	This cattle livestock facility has no water quality protection plans.	Nicole Fisher

## Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments
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## Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hy Plains Beef	3000306	The site is closed from a 1991 gasoline leak. No groundwater contamination was suspected.	Nicole Fisher
Kindsvater Inc	3001110	The site is closed from a waste oil spill in 1990. No groundwater contamination was suspected.	Nicole Fisher
Roto-mix	3002181	The site is currently being monitored from a 1989 gasoline spill. There are two public water wells within .25 miles downgradient of the spill. For information contact Aaron Norris (785) 296-8987	Nicole Fisher
W W Manufacturing	3001234	The site is closed from a gasoline spill in 1989. No groundwater contamination was suspected.	Nicole Fisher

## Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
BNSF DODGE CITY RAIL YARD	7000043	This site is an abandoned refueling area for a rail facility. Leaks and spills have caused some petroleum hydrocarbon impacts to the local groundwater and soil. For information contact Tom Jones (785) 296-6380	Nicole Fisher
EXCEL BEEF (MBPXL)	7000036	The soil and groundwater are contaminated with chloride and nitrate from a local business. An extraction well was constructed and started pumping in 2002 in order to limit the contamination of the groundwater. For information contact Wally Mack (785) 296-1614	Nicole Fisher

## Comments for Regulated Solid Waste Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Ford County HHW Program	5000640	Hazardous waste facilities have no groundwater monitoring requirements.	Nicole Fisher

## Comments for Regulated Waste Water Sites

Did Not Receive Any Comments
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### **Added Site Comments:**

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

# Added Site Comments

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**

Assessment Area: **874**

## Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
cropland	9001294	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001303	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001306	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001309	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001319	This site could contaminate the public water supply.	Nicole Fisher
discharging lagoons	9001292	This site could contaminate the public water supply.	Nicole Fisher
grove of trees	9001295	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
grove of trees	9001304	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
pastureland	9001310	This site could contaminate the public water supply.	Nicole Fisher
rural residence	9001305	This site could contaminate the public water supply.	Nicole Fisher

Public Water Supply: **NATIONAL BEEF PACKING, LP-DODGE**  
Assessment Area: **874**  
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## **Analysis Question Comments:**

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

# Analysis Question Comments

Public Water Supply: NATIONAL BEEF PACKING, LP-DODGE  
Assessment Area: 874

## Comments for Analysis Questions

Analysis Question	Question Comments	Author
Did Not Receive Any Comments		